

FIGURE 1A

3-O-mycarosylenythronolide B

erythronolide B

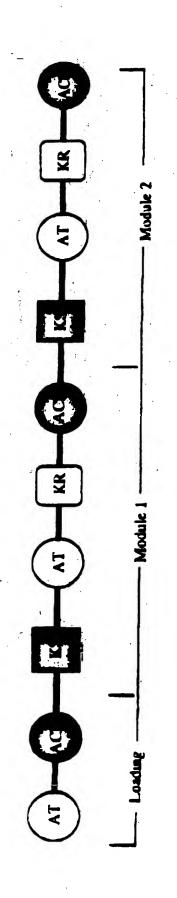
6-deoxyerythronolide B

Post-PKS Biosynthesis of Erythromycins

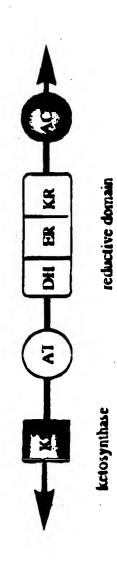
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erythromycin Ø A

DEBS1:



Generic Modular PKS.



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ACP-like domain

FIGURE 2

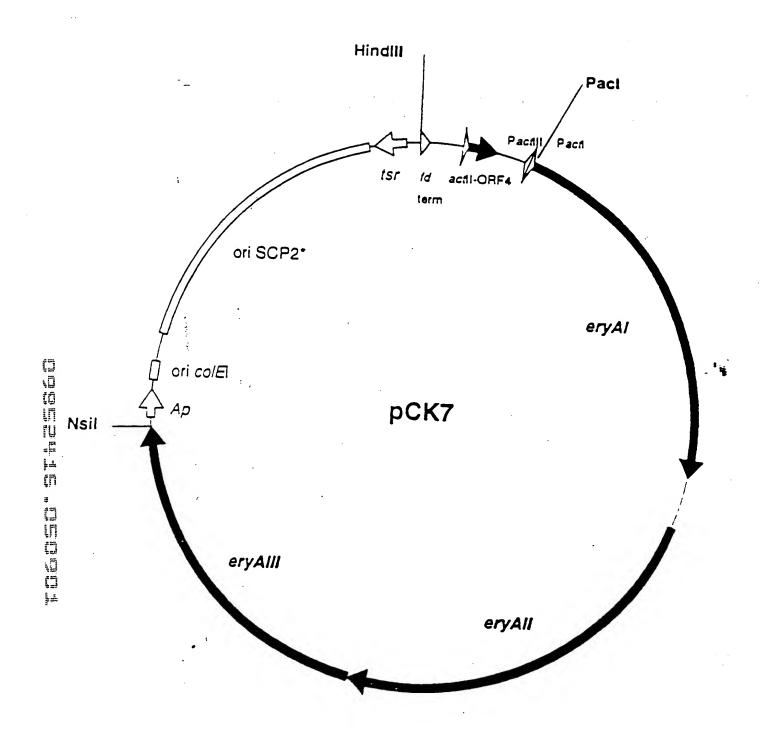
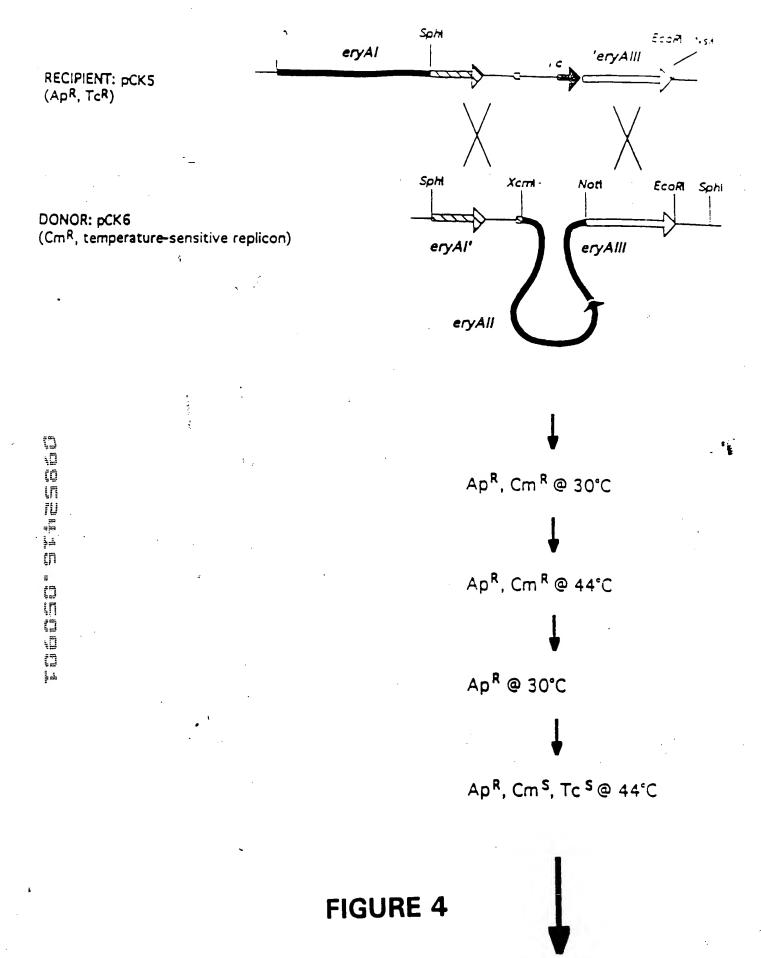
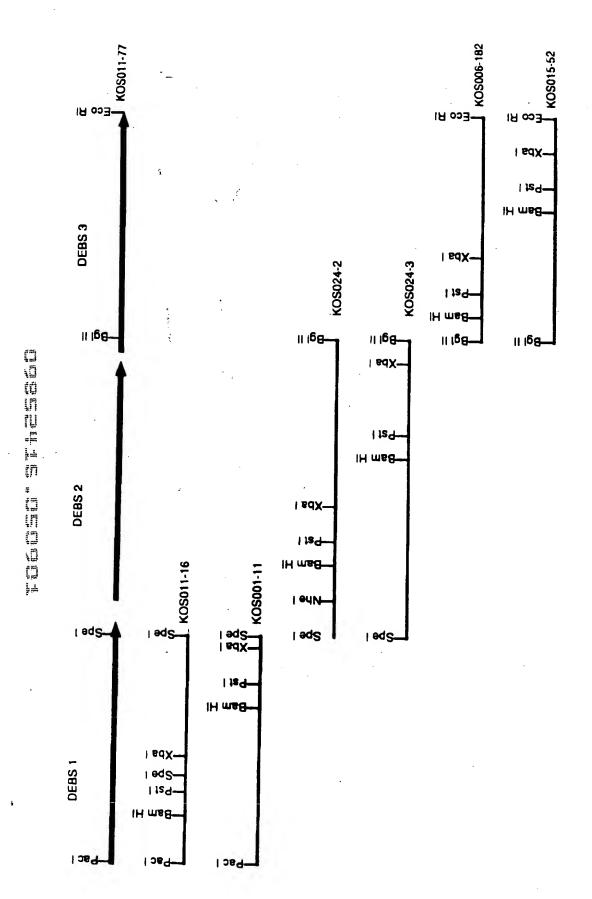


FIGURE 3





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FIGURE 6A

FIGURE 6B

FIGURE 6C

FIGURE 6D

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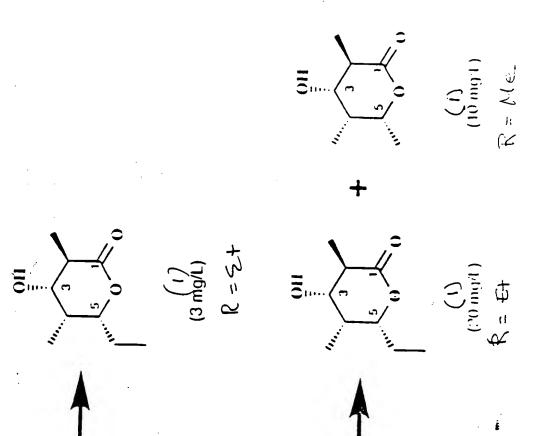
FIGURE 6E

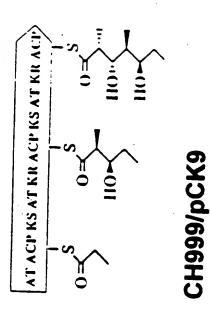
FIGURE 6F

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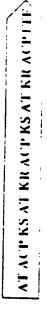






module 2

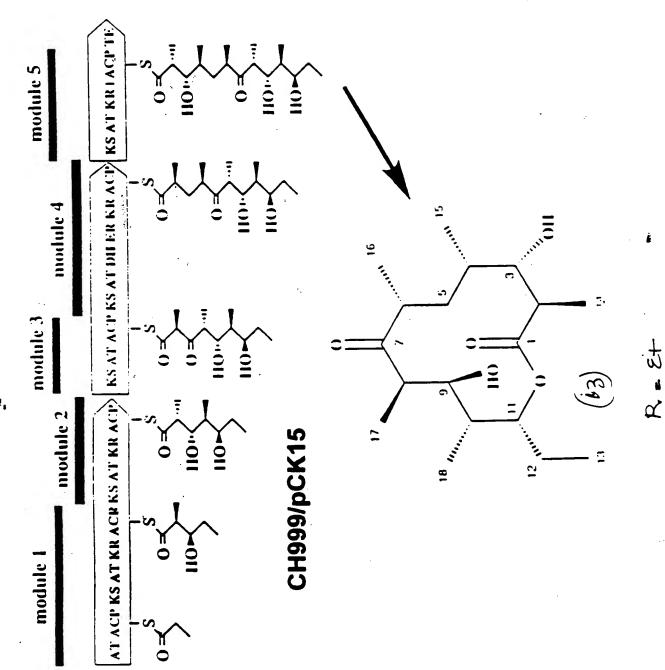
module 1



(D)

CH999/pCK12

FIGURE



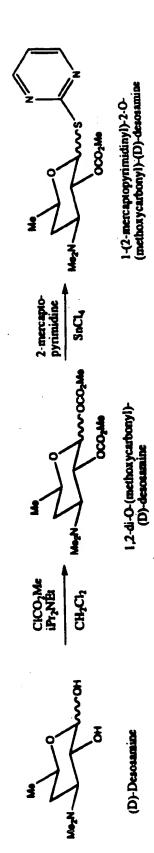
(U)

FIGURE &

FIGURE 9

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Preparation of 1-(2-mercaptomyrimidinyl)-2-O-(methoxycarbonyl)-(D)-desosamine



11-oxo-11-deoxyerythromycin A

7-hydroxyerythromycin A

6-deoxy-7-hydroxyerythromycin A

312

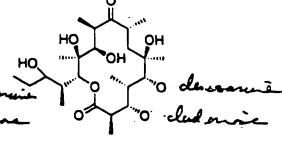
2 313

314

7-oxo-erythromycin A

315

}± (N 3-oxo-3-deoxy-5-desosaminylerythronolide A 3 L C 6,7-anhydro-erythromycin A



(14S,15S)-14-(1-hydroxyethyl)erythromycin A

14-(1-propyl)erythromycin A

14-(1-hydroxypropyl)erythromycin A

318

3 19 OH OH

O-mycarose

320

5,6-dideoxy-6,6a-epoxy-5-oxo-erythronolide B 5,6-dideoxy-5-oxo-3-mycarosyl-erythronolide B

322

321

*E= /*7 R